2021 International Conference on Artificial Intelligence and Smart Systems (ICAIS 2021)

Coimbatore, India 25 – 27 March 2021

Pages 1-585



IEEE Catalog Number: ISBN:

CFP21OAB-POD 978-1-7281-9538-4

Copyright © 2021 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP21OAB-POD

 ISBN (Print-On-Demand):
 978-1-7281-9538-4

 ISBN (Online):
 978-1-7281-9537-7

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



International Conference on Artificial Intelligence and

Smart Systems (ICAIS-2021)

Table of Contents

S. No	Paper Title/ Author Name	Page. No
	Application of Nature-Inspired Swarm Optimization Algorithms in Artificial Neural	
1	Networks	1
	Abhinav Srivastava, Puja Chaudhury	
	Artificial Intelligent for Speech Reproduction of Information and Knowledge of	
2	Ancient Books	7
	Liming Tang, Chongyu Li	
3	Thyroid Nodule Detection using Artificial Neural Network	11
3	Xhitij A. Kesarkar, K. V. Kulhalli	11
	Smart Device Waiter using AI image and Voice Recognition with an IPS Navigation	
4	System	16
	Gaby Abou Haidar, Nouhad Hachem, Mohammad Awad	
5	Early Stage Lung Cancer Diagnosis using ANN Classifier	22
3	Shailesh S. Bhise, S. R. Khot	22
	A Survey on Artificial Intelligence based Techniques to convert user Interface	
6	Design Mock-Ups to Code	20
6	Harsh Dave, Sarah Sonje, Jaswantsingh Pardeshi, Sheetal Chaudhari, Pooja	28
	Raundale	
7	Orderista - AI-based Food Ordering Application	2.4
7	Tejas Raibagi, Ashwin Vishwakarma, Jahnvi Naik, Rujata Chaudhari, Geetanjali	34
	Smart Borewell Child Rescue System through Wireless Monitoring using Artificial	
8	Intelligence	38
	Nandhitha Bala, V.Maria Anu, Prashanthi Niharika, L.Mary Gladence, S.Revathy	
	Correlation Analysis of Financial Indicators and Stock Price Fluctuations based on	
9	Artificial Intelligence System	43
	Shu Chen	
10	A Survey on Future of Augmented Reality with AI in Education	47
10	Kaviyaraj R, M. Uma	47
11	Revamping Supermarkets with AI and RSSi	52
11	Prashant Kaushik, Anshul Sharma, Gurjit Singh Bhathal	53
	Impact of Artificial Intelligence on Recruitment and Selection of Information	
12	Technology Companies	60
	A. Hemalatha, P. Barani Kumari, Nishad Nawaz, Vijayakumar Gajenderan	
12	Pneumonia Detection using Image Processing and Deep Learning	(7
13	Harsh Agrawal	67
_	Measuring the Heart Attack Possibility using Different Types of Machine Learning	
1.4	Algorithms	74
14	Maria Sultana Keya, Muhammad Shamsojjaman, Faruq Hossain, Farzana Akter,	74
	Fakrul Islam, Minhaz Uddin Emon	
1.5	Assessment Study for E-Learning using Bayesian Network	70
15	Rohit B Kaliwal, Santosh L Deshpande	79
	Covid Detection from X-Ray and CT Scans using Transfer Learning – A Study	
16	Shailender Kumar, Mohd Talib, Naman, Praduman Verma	85

17	Impact of Federated Learning on Smart Buildings Angan Mitra, Yanik Ngoko, Denis Trystram	93
18	Brain Tumor Detection using Deep Learning and Image Processing	100
19	Aryan Sagar Methil Machine Learning-based Classification of Dementia Types: MRI Study	109
	V. P. Subramanyam Rallabandi, Krishnamurthy Seetharaman Transfer Learning based Breast Cancer Classification using One-Hot Encoding	107
20	Technique Karthiga R, Usha G, Raju N, Narasimhan K	115
21	Sentiment Analysis for Product Rating using a Deep Learning Approach Krishna Kumar Mohbey	121
22	Prediction of Type-2 Diabetes using Machine Learning Algorithms Valasapalli Mounika, Devi Sree Neeli, Gorla Suma Sree, Parimi Mourya, Madala Aravind Babu	127
23	A Comparative Study of the Performance of Machine Learning based Load Forecasting Methods P. Prashanthi, Priyadarsini . K	132
24	Performance Analysis of Supervised Machine Learning Algorithms for Diabetes and Breast Cancer Dataset Aayushi Bansal, Anita Singhrova	137
25	Review on Image Classification Techniques in Machine Learning for Satellite Imagery N. Thamaraikannan, S. Manju	144
26	A Machine Learning Approach for Prediction System and analysis of Nutrients Uptake for better Crop Growth in the Hydroponics System Swapnil Verma, Sushopti D.Gawade	150
27	Sentiment Analysis on Food Review using Machine Learning Approach Nourin Islam, Nasrin Akter, Abdus Sattar	157
28	Analysis on Prediction of Plant Leaf Diseases using Deep Learning S. Nandhini, K. Ashokkumar	165
29	Trajectory Planning & Computation of Inverse Kinematics of SCARA using Machine Learning M Aruna Devi, Prajwal S Hebbar, Praveen D Jadhav, Mohammed Mohsin, Nepal Adhikary, S Krishna Shashank	170
30	Paediatric Sickle Cell Detection using Deep Learning - A Review S. Nikkath Bushra, G. Shobana	177
31	Recognition of Single and Multiple Partial Discharge patterns using Deep Learning Algorithm T. Sukumar, A. Prince, G. Balaji, S. Praveen Kumar, B. Vigneshwaran	184
32	A Systematic Review: Deep Learning based E-Learning Recommendation System Roshan Bhanuse, Sandip Mal	190
33	Deep learning-based Techniques for the Automatic Segmentation of Organs in Thoracic Computed Tomography Images: A Comparative Study Malvika Ashok, Abhishek Gupta	198
34	Network Security: Threat Model, Attacks, and IDS Using Machine Learning Divya Kapil, Nidhi Mehra, Atika Gupta, Sudhanshu Maurya, Anupriya Sharma	203
35	Yolo-v4 Deep Learning Model for Medical Face Mask Detection Sheshang Degadwala, Dhairya Vyas, Utsho Chakraborty, Abu Raihan Dider, Haimanti Biswas	209

36	Divorce Case Prediction using Machine Learning Algorithms Aditya Sharma, Arshdeep Singh Chudhey, Mrityunjay Singh	214
	Machine Learning-based Pharmaceutical Tablet Inspection and Recognition	
37	Techniques –A Review	220
31	Urja Patel	220
	Scrutinizing of Fake News using Machine Learning Techniques	
38	S. Gowri, Jenila J, Bathula Sowmya Reddy, M. Antony Sheela	223
	A Comprehensive Analysis of Deep Learning Techniques for Documentation	
39	Classification	228
37	Vinod Kumar, Ishika Jain, Ayushdeep Dabas, Kartik Pawar	220
	Collaborative Learning for Improving Intellectual Skills of Dropout Students using	
40	Datamining Techniques	236
10	M. Revathy, S. Kamalakkannan	250
	A Survey on Bone Fracture Identification Techniques using Quantitative and	
41	Learning based Algorithms	241
• •	Saranya A, K. Kottilingam	2.11
	Effective Prediction of Heart Disease using Data Mining and Machine Learning: A	
42	Review	249
	Simran Verma, Abhishek Gupta	2.17
	A Review on Machine Learning based Student's Academic Performance Prediction	
43	Systems Systems	254
13	Rahul Katarya, Aryan Garg, Jalaj Gaba, Varsha Verma	251
	A Review on Reinforcement Learning based News Recommendation Systems and	
44	its Challenges	260
• • •	Sindhuja Bangari, Shantharam Nayak, Ladly Patel, Rashmi K T	200
	Crime Type and Occurrence Prediction using Machine Learning Algorithm	
45	Kanimozhi N, Keerthana N V, Pavithra G S, Ranjitha G, Yuvarani S	266
	Identification of Drug Discovery for Patients using Machine Learning	
46	Jegan Antony Marcilin. L, Rexiline Sheeba. I, Sugadev.M, Balamurugan Velan,	274
.0	Chitra P	_, .
45	Text Recognition in Moving Vehicles using Deep learning Neural Networks	250
47	K. T. Ilayarajaa, V. Vijayakumar, M. Sugadev, T. Ravi	279
	Review of Machine Learning methods for Identification of Cyberbullying in Social	
48	Media	284
	Neha Singh, Sanjay Kumar Sharma	
40	A review on Deep Learning based Pneumonia Detection Systems	200
49	Shailender Kumar, Pankaj Singh, Mohit Ranjan	289
	Machine Learning Algorithms in Smart Antenna and Arrays for Internet of Things	
50	Applications	297
	Abhishek Javali, Anindita Sahoo, Jagrati Gupta	
	ECG Classification using a Hybrid Deep learning Approach	202
51	SK Mohammad Rafi, Shaheda Akthar	302
51	SK MOHAHIHAU KAH, SHAHEUA AKHAI	
31		
	Breast Cancer Prediction using Deep Learning Techniques	306
52	Breast Cancer Prediction using Deep Learning Techniques Apparna Allada, Prasad Chitturi, Mannem Siva Naga Prasad, Ganaga Rama	306
	Breast Cancer Prediction using Deep Learning Techniques Apparna Allada, Prasad Chitturi, Mannem Siva Naga Prasad, Ganaga Rama Koteswara Rao, Hema Chindu, Poojitha Tatineni	306
52	Breast Cancer Prediction using Deep Learning Techniques Apparna Allada, Prasad Chitturi, Mannem Siva Naga Prasad, Ganaga Rama	
	Breast Cancer Prediction using Deep Learning Techniques Apparna Allada, Prasad Chitturi, Mannem Siva Naga Prasad, Ganaga Rama Koteswara Rao, Hema Chindu, Poojitha Tatineni A Hybrid Machine Learning and Data Mining based Approach to Network Intrusion Detection	306
52	Breast Cancer Prediction using Deep Learning Techniques Apparna Allada, Prasad Chitturi, Mannem Siva Naga Prasad, Ganaga Rama Koteswara Rao, Hema Chindu, Poojitha Tatineni A Hybrid Machine Learning and Data Mining based Approach to Network Intrusion	

	S. Banumathi, A. Aloysius	
	Deep Learning for Lung Cancer Prediction using NSCLS patients CT Information	
55	Naresh Cherukuri, Prasad Chitturi, Naga Raju Bethapudi, CMAK Zeelan Basha,	325
	Venkata Sai Krishna Thotakura, Raja Mani Mummidi	
5.0	A Comparative Approach To Predict Corona Virus using Machine Learning	221
56	Rohini. M, Naveena. K. R, Jothipriya. G, Kameshwaran. S, Jagadeeswari. M	331
	Post COVID-19 Twitter user's Emotions Classification using Deep Learning	
	Techniques in India	220
57	Poojitha Tatineni, Bharghavi Kanuri, Prasad Chitturi, B Sobhan Babu, Ganga Rama	338
	Koteswara Rao, Cherukuri Naresh	
	COVID-19 Diagnosis using X-Ray Images and Deep Learning	
58	Shivani Sharma, ShamikTiwari	344
	Predicting the E-Learners Learning Style by using Support Vector Regression	
59	Technique	350
3)	Suresh K, Meghana J, Pooja M E	330
	Machine Learning based Hand Sign Recognition	
60	Greeshma Pala, Satish Shivaji Kumbhar, Jagruti Bhagwan Jethwani, Shruti Dilip	356
OU	Patil	330
(1	Primary Stage of Diabetes Prediction using Machine Learning Approaches	264
61	Minhaz Uddin Emon, Maria Sultana Keya, Md. Salman Kaiser, Md. Ariful islam,	364
	Tabassum Tanha, Md. Sabab Zulfiker	
62	Unsupervised Learning-based Vegetation Change Detection with Landsat 8 Data	368
	Md. Nur Uddin Sarker, Farah Ulfat, Md Zunayed Ahmed Siddique, Tanjila Farah	
	Comparative Question Answering System based on Natural Language Processing	
63	and Machine Learning	373
	Rohit Arora, Parth Singh, Hemlata Goyal, Sunita Singhal, Smita Vijayvargiya	
	Reinforcement Learning based Intelligent Traffic Signal Control using n-step	
64	SARSA	379
	Akshay Kekuda, R. Anirudh, Mithun Krishnan	
	Comparative Study Between Deep Learning Techniques and Random Forest	
65	Approach for HRRP Based Radar Target Classification	385
	M. Justin Sagayaraj, V. Jithesh, Dange Roshani	
	Design of Intelligent University Financial Management System based on B/S	
66	Structure and Complex Data Mining	389
	Ying Fang, Zebang Wang	
	Digital analysis of the Current Situation of Network Ideological Propaganda based	
67	on Remote Data Modeling	393
	Wenjun Liu	
(0	Wenjun Liu Image Classification using Tensor Flow	200
68	Image Classification using Tensor Flow	398
68	Image Classification using Tensor Flow Rishabh Singhla, Prince Singh, Rosy Madaan, Supriya Panda	398
	Image Classification using Tensor Flow Rishabh Singhla, Prince Singh, Rosy Madaan, Supriya Panda Twitter Spam Detection using Natural Language Processing by Encoder Decoder	
68 69	Image Classification using Tensor Flow Rishabh Singhla, Prince Singh, Rosy Madaan, Supriya Panda Twitter Spam Detection using Natural Language Processing by Encoder Decoder Model	398
	Image Classification using Tensor Flow Rishabh Singhla, Prince Singh, Rosy Madaan, Supriya Panda Twitter Spam Detection using Natural Language Processing by Encoder Decoder Model Kshitiz Badola, Mridul Gupta	
69	Image Classification using Tensor Flow Rishabh Singhla, Prince Singh, Rosy Madaan, Supriya Panda Twitter Spam Detection using Natural Language Processing by Encoder Decoder Model Kshitiz Badola, Mridul Gupta A Novel Score-based Multi-Source Fake News Detection using Gradient Boosting	402
	Image Classification using Tensor Flow Rishabh Singhla, Prince Singh, Rosy Madaan, Supriya Panda Twitter Spam Detection using Natural Language Processing by Encoder Decoder Model Kshitiz Badola, Mridul Gupta A Novel Score-based Multi-Source Fake News Detection using Gradient Boosting Algorithm	
69	Image Classification using Tensor Flow Rishabh Singhla, Prince Singh, Rosy Madaan, Supriya Panda Twitter Spam Detection using Natural Language Processing by Encoder Decoder Model Kshitiz Badola, Mridul Gupta A Novel Score-based Multi-Source Fake News Detection using Gradient Boosting Algorithm S. Selva Birunda, R. Kanniga Devi	402
69 70	Image Classification using Tensor Flow Rishabh Singhla, Prince Singh, Rosy Madaan, Supriya Panda Twitter Spam Detection using Natural Language Processing by Encoder Decoder Model Kshitiz Badola, Mridul Gupta A Novel Score-based Multi-Source Fake News Detection using Gradient Boosting Algorithm S. Selva Birunda, R. Kanniga Devi Design of Intelligent Distance Music Education System based on Pan-	402
69	Image Classification using Tensor Flow Rishabh Singhla, Prince Singh, Rosy Madaan, Supriya Panda Twitter Spam Detection using Natural Language Processing by Encoder Decoder Model Kshitiz Badola, Mridul Gupta A Novel Score-based Multi-Source Fake News Detection using Gradient Boosting Algorithm S. Selva Birunda, R. Kanniga Devi	402

72	Data Mining based Intelligent Interior Design Paradigm with Information Flow Communication Model Rui He	419
73	Construction Method of Data Security Protection System of Power Information System based on Big Data Technology Jin Li, Zhengwen Zhang, Hua Cai, Lingyu Zhang, Xindong Huang	423
74	Design of Intelligent Construction Engineering Frame based on Communication Information Visualization Xiaoxing Kou	428
75	Convalescent Plasma Therapy: Data Driven Approach for finding the Best Plasma Donors M N Noorshidha, G. Aghila	432
76	Innovative Study on Online Ideological Education in the era of New Media, Face Recognition and Blockchain Hongrong Gao	440
77	Design of Digital Museum Narrative Space based on Perceptual Experience Data Mining and Computer Vision Guoyuan Cao, Keming Zeng	444
78	Computer-aided Measurement Modeling Analysis of behavioral Psychology with brain-Computer Interface Analysis Weijie Zhang, Zhichen Zhang, Kaitai Xiao	449
79	Construction of Smart Home-School Collaboration System based on Distributed Cluster Technology Yubei Yang	454
80	Resource Management Approach for Pervasive Computing in Smart Cities Padmanabhan P, Kumaresan M	458
81	Smart Traffic System using Traffic Flow Models Arihant Kamdar, Jigarkumar Shah	465
82	Automated Sign Language Interpreter using DataGloves Anupama H S, Usha B A, Spoorthy Madhushankar, Varsha Vivek, Yashaswini Kulkarni	472
83	Optimum Tilt and Orientation Angle Determination with Application of Solar Data Neha Sharma, Pawan Kumar Tiwari, Gulhasan Ahmad, Harsh Sharma	477
84	Enhanced Stacking Ensemble Model in Predictive Analytics of Environmental Sensor Data J. Angelin Jebamalar, T. Kamalakannan	482
85	Face Recognition based Activity Detection for Security Application Harshada Badave, Madhav Kuber	487
86	Head Pose Estimation based Robust Multicamera Face Recognition Harshada Badave, Madhav Kuber	492
87	SSVEP based Correlation Analysis for Efficiency Enhancement of Brain- Computer Interfaces Ashwini S. R, H. C. Nagaraj	496
88	Design of ESP8266 Smart Home using MQTT and Node-RED Paul Macheso, Tiwonge D. Manda, Sylvester Chisale, Nelson Dzupire, Justice Mlatho, Didacienne Mukanyirigira	502
89	Mobile Application for Flood Disaster in Jakarta Vito Lauda Putra Anta, Ivander Albert Liestyo, Harco Leslie Hendric Spits Warnars	506

90	Method of Text Summarization using LSA and Sentence based Topic Modelling with BERT	511
	Hritvik Gupta, Mayank Patel	
91	Speech Enhancement using K-Sparse Autoencoder Techniques Sujoy Kumar Roy Chowdhury, Amitava Chatterjee	518
92	Garbage Detection using Advanced Object Detection Techniques Deep Patel, Foram Patel, Samir Patel, Nihar Patel, Dhruvil Shah, Vibha Patel	526
93	A Comprehensive Survey on Movie Recommendation Systems R. Lavanya, Utkarsh Singh, Vibhor Tyagi	532
94	Label Propagation from Laplacian Score for Semi-Supervised Attribute Selection Nithya Roopa S, D. Sathya, V. Sudha	537
95	Artificial Intelligence based Smart Door with Face Mask Detection Baluprithviraj. K. N, Bharathi. K. R, Chendhuran. S, Lokeshwaran. P	543
96	Convolutional Neural Network for Diabetic Retinopathy Detection Shital N. Firke, Ranjan Bala Jain	549
97	An Object Segmentation Approach for Mobile Lidar Point Clouds Musa Şervan Şahin, Tankut Acarman	554
98	Sentiment Analysis of COVID-19 Nationwide Lockdown Effect in India Nida Afroz, Vijeta Sharma, Moinak Boral, Manjari Gupta	561
99	Pre-trained Word Embeddings for Malayalam Language: A Review Reji Rahmath K, P C Reghu Raj, Rafeeque P C	568
100	Fully Smart Fire Detection and Prevention in the Authorized Forests Venkata Ramana Karumanchi, S. Hrushikesava Raju, S. Kavitha, V. Lakshmi Lalitha, S. Vijaya Krishna	573
101	Survey Paper based Critical Reviews for Cosmetic Skin Diseases Shwetambari Borade, Dhananjay Kalbande	580
102	Eliminating the Web Noise by Text Categorization and Optimization Algorithm S. Ganeshmoorthy, R. Priya	586
103	Client-side Cryptography based Security for Cloud Computing System Md. Abu Musa, Md. Ashiq Mahmood	594
104	A Brief Study on Approaches for Extractive Summarization Kajal Jewani, Ojas Damankar, Nitesh Janyani, Disha Mhatre, Sahil Gangwani	601
105	Classification of COVID-19 cases using Fine-Tune Convolution Neural Network (FT-CNN) Sheshang Degadwala, Dhairya Vyas, Harsh Dave	609
106	Systematic Analysis of Movie Recommendation System through Sentiment Analysis R Lavanya, B. Bharathi	614
107	S.M.A.R.T. Technologies for Transport Tests Networks, Exploitation and Repair Tools Georgiy Baranov, Ievgen O. Zaitsev, Olena Komisarenko, Ilona Chernytska	621
108	CNN based Counterfeit Indian Currency Recognition using Generative Adversarial Network Shamika Desai, Atharva Rajadhyaksha, Anjali Shetty, Swapnil Gharat	626
109	A Deep Neural Network based efficient Software–Hardware Co-design Architecture for Sparsity Exploration S. John Pimo, Priyadarsini. K, Damaraju Sri Sai Satyanarayana, K. G. S. Venkatesan	632
110	Enhancement Techniques for Analysis of Satellite Images through ERDAS Software S. Sainis, V. Barahate, S. Bandawar, S. Tarak, Nita Nimbarte, Sanjay Balamwar	640
111	Performance Analysis of Parallel Programming Paradigms on CPU-GPU Clusters B N Chandrashekhar, H A Sanjay, Tulasi Srinivas	646

	Mtanh Attention Dil CTM model for Prediction of Automobile Evenort Customer	
112	Mtanh-Attention-BiLSTM model for Prediction of Automobile Export Customer Satisfaction	652
112	K. Shyamala, C. S Padmasini	032
	Text Based Hate-Speech Analysis	
113	Janak Sachdeva, Kushank Kumar Chaudhary, Harshit Madaan, Priyanka Meel	661
	Recruitment System with Placement Prediction	
114	Suraj Gupta, Yuvraj Haryan, Atif Hingwala, Swapnil Gharat	669
	Comparative Study of Boosting and Bagging based Methods for Fault Detection in a	
115	Chemical Process	674
113	Rahul Shrivastava	0/4
	An Efficient Framework for Iris Segmentation with Additional Pressure term in the	
116	G	680
110	Active Contour model and Classification	080
	S. Y. Pattar	
117	An Autonomous Cleaning Robot	686
	Sri Vishva R, Naresh R, Venkada Krishnan M. S	
118	Early Detection of Alzheimer's Disease using Ensemble of Pre-Trained Models	692
	Ambily Francis, Immanuel Alex Pandian	
119	Traffic Light Cycle Control using Deep Reinforcement Technique	697
	Satya Prakash Sahu, Deepak Kr. Dewangan, Archit Agrawal, T. Sai Priyanka	
	Cyber Security in Digital Sector	
120	Akanksha verma, Pronika Chawla, Ragasree Surendra, Kritika Soni, B. Srikanth	703
	Reddy	
	Feature Selection and Prediction of Heart diseases using Gradient Boosting	
121	Algorithms	711
	Anuradha. P, Vasantha Kalyani David	
122	A Transformers Approach to Detect Depression in Social Media	718
122	Keshu Malviya, Bholanath Roy, Saritha SK	/10
123	Big Social Data and Modelling Frameworks	724
123	Inshita Bamba, Yashika, Jahanvi Singh, Pronika Chawla, Kritika Soni	/ / 4
	Global Web based Shopping from the Customers and Merchants View	
124	B. Venkateswarlu, B. Revathi, Durga Bhavani Dasari, MVBT Santhi, Harika	728
	Lakshmi Sikhakolli	
125	Jakarta Smart City Mobile Application for Problem Reporting	725
123	Dejan Rivaldo Bongestu, Yappiter, Harco Leslie Hendric Spits Warnars	735
	Mobile Application for the Futsal Sports Community in Jakarta	
126	Farel Darari Deksano, Dimas Raka Erfiandhi, Anggy Cahya Prasetya, Aditya Satria	741
	Nagara Patmuryanto, Harco Leslie Hendric Spits Warnars	
107	Lesion Extraction of Endometriotic Images using Open Computer Vision	7.47
127	Visalaxi.S, Dinah Punnoose, T. Sudalai Muthu	747
	Hyperparameter Optimization of LSTM based Driver's Aggressive Behavior	
128	Prediction Model	752
	D. Deva Hema, K. Ashok Kumar	
	Study of Block Chain Technology in Empowering the SME	
129	Suneetha Merugula, Dinesh G, M. Kathiravan, Gourab Das, Praful Nandankar,	758
1_,	Santoshachandra Rao Karanam	, 60
	SSLA based Traffic Sign and Lane Detection for Autonomous Cars	
130	S Swetha, P. Sivakumar	766
	Real-time Healthcare Monitoring using Smart Systems: A Step Towards Healthcare	
131	Service Orchestration	772
131	Vaidik Bhatt, Samyadip Chakraborty	112
	valuik Dilati, Samyatiip Cilakiatotity	

132	A Novel Solar Power based Liquid Sprayer for Agricultural, Environmental and Health Care Applications	778
	P Rama Mohan	
133	Real Time Solar Tracking System with GPS	783
133	Neelam Verma, Manish Kumar, Shivam Sharma	703
	An Efficient Squirrel Search Algorithm based Vector Quantization for Image	
134	Compression in Unmanned Aerial Vehicles	789
	M. S. Minu, R. Aroul Canessane	
135	Image Quality Enhancement Algorithm based on Game Theory Model Erhui Xi, Songfeng Zhang	794
106	A Research Survey on State of the art Heart Disease Prediction Systems	
136	Lakshmi Prasad Koyi, Tejaswi.Borra, G. Lakshmi Vara Prasad	799
	A Review: Condition based Techniques and Predictive Maintenance for Motor	
137	Aniket A. Manjare, Babasaheb G. Patil	807
	Sentiment Analysis for Youtube Videos with user Comments: Review	
138	Rawan Fahad Alhujaili, Wael M.S. Yafooz	814
	Model based Design for Automobiles by using Modeling and Optimization of	
139	Engine Cooling System	821
139	E. Esakki Vigneswaran, S. Sujitha, R. Praveen	021
	Optimal Solution of Economic Load Dispatch using Teaching Learning Algorithm	
140	Chodagam Srinivas, I Kranthi Kumar, A Senthilkumar, Y V Balarama Krishna Rao	828
1./1	Distinguishing Pneumonia and COVID-19: Utilizing Computer Vision to Mimic	024
141	Clinician Efficacy	834
	Ishika Saha, Mahendra Kumar Gourisaria, Harshvardhan GM	
142	Comparision of Diabetic Prediction AutoML Model with Customized Model	842
	Gururaj N Kulkarni, Sateesh Ambesange, Vijayalaxmi A, Anindita Sahoo	
143	Staleness and Stagglers in Distibuted Deep Image Analytics	848
	Aswathy Ravikumar, Harini Sriraman	
144	Image Fusion Algorithm for Medical images using DWT and SR	853
	Praveen kumar S, Sridevi S	
	Visual Question Answering using Data Mining Techniques for Skeletal Scintigraphy	
145	in medical domain – VQADMSS	859
	Jinesh Melvin Y I, Sushopti Gawade, Hemant Palivela	
146	Effectiveness of Robotic Process Automation for Data Mining using UiPath	864
110	Yashodhan Ketkar, Sushopti Gawade	
147	Analysis of Brain Metastability in Healthy Elderly Population	868
17/	Avinash Shinde, Surya Das, Subha D. P	000
148	CNN Based COVID-19 Prevention System	873
140	Deepalaxmi R Shenvi, Krishnananda Shet	0/3
	Pre-Processing techniques of Text Mining using Computational Linguistics and	
149	Python Libraries	879
	Sakthi Vel S	
	Motor Imagery Classification based on Hybrid Feature Extraction and Deep Neural	
150	Network	885
	Rameshwar D. Chintamani, Parmalik Kumar, Rajneesh Karan	
1.5.1	A Survey on Analysis of Fake News Detection Techniques	00.1
151	Shailender Kumar, Subodh Kumar, Pooja Yadav, Meghna Bagri	894
	A Study on Various Techniques for Plant Leaf Disease Detection using Image Leaf	
152	Sakshi Raina, Abhishek Gupta	900
1 12	outon runu, romanor oupu	700

152	Design of Microwave Wideband Antenna for Brain Tumor Imaging Applications Polary was a Valor I. Joseph Anteny Marcilin, I. Poviling Shocks Sycoday Marci	006
153	Balamurugan Velan, L. Jegan Antony Marcilin, I. Rexiline Sheeba, Sugadev Mani, Mani, Mary Sajin Sanju	906
154	Voice Navigation based guiding Device for Visually Impaired People P. Chitra, M. Sumathi, K. Srilatha, V. Balamurugan, N. Mathan, R. Narmadha	911
155	Secure Encrypted Data Transmission of Brainwaves using AES S. Yogalakshmi, E. Annadevi, Magthelin Therase, R. M. Joany	916
156	A Novel Approach of Human Hunger Detection Especially for Physically Challenged People S. Lakshmi, P. Kavipriya, M. R. Ebenezar Jebarani, T. Vino	921
157	Three-link Robotic Manipulator using the Data Acquisition System and Stereo Vision V. Vijayakumar, K. T. Ilayarajaa, T. Ravi, M. Sugadev, Suriya Prakash. P	928
158	A Survey on Visual Speech Recognition Approaches N. Radha, A. Shahina, A. Nayeemulla khan	934
159	Optimal DG Allocation Using Particle Swarm Optimization Prem Prakash	940
160	Hybrid Methods of Contourlet Transform and Particle Swarm Optimization for Multimodal Medical Image Fusion Mitesh Kumar, Nikhil Ranjan, Bharti Chourasia	945
161	Crop Yield Prediction using Remote Sensing and Meteorological Data Avnika Shah, Rhea Agarwal, B. Baranidharan	952
162	Street View Text Detection Methods : Review Paper Anuja Shinde, Manasi Patil	961
163	A Polyhouse: Plant Monitoring and Diseases Detection using CNN Radha N, Swathika R	966
164	An ASR System for Malayalam Short Stories using Deep Neural Network in KALDI Lekshmi K R, Elizabeth Sherly	972
165	Data Mining and Region Prediction based on Crime using Random Forest Dewan Mamun Raza, Debasish Bhattacharjee Victor	980
166	Guidance System for Visually Impaired People Kanchan Patil, Avinash Kharat, Pratik Chaudhary, Shrikant Bidgar, Rushikesh Gavhane	988
167	A Comparative Evaluation of Data Mining Techniques for Fault Classification in TCSC Lines using Multiclass Classification Approach Nishant H. Kothari, Bhavesh R. Bhalja, Vivek Pandya, Pushkar Tripathi	994
168	Design of Smart Cane with Integrated Camera Module for Visually Impaired People Lavanya Narayani. T, Sivapalanirajan. M, Keerthika. B, Ananthi. M, Arunarani M	999
169	A Secure Image Steganography using Improved LSB Technique and Vigenere Cipher Algorithm Lasya Voleti, Balajee R M, Siva Koteswararao Vallepu, Karthik Bayoju, Devireddy Srinivas	1005
170	A Survey based on PLL and its Synchronization Techniques for Interconnected System Mohan P. Thakre, Nishant P. Matale, Payal S. Borse	1011
171	Object Tracking and Counting in a Zone using YOLOv4, DeepSORT and TensorFlow Shailender Kumar, Vishal, Pranav Sharma, Nitin Pal	1017
172	Application of Pre-Trained Deep Convolutional Neural Networks for Rice Plant Disease Classification	1023

	Vimal K. Shrivastava, Monoj K. Pradhan, Mahesh P. Thakur	
173	Mandatory Enforcement of Geofenced Security in Android Prateek Pande, Amit Kumar Medatiya, Kurra Mallaiah, Rishi Kumar Gandhi,	1031
174	S Srinivasachary Infini – A Keyword Recognition Chatbot	1036
175	Mansi Dinesh Thakkar, Mitesh Nilesh Shah, Charmi Umesh Sanghavi, Nilakshi Jain Cuckoo Search Optimization for the Classification of Remote Sensing Image Processing	1043
173	Gandla Shivakanth, Prakash Singh Tanwar Breast Cancer Detection-based Feature Optimization using Firefly Algorithm and	1043
176	Ensemble Classifier Yogesh Suresh Deshmukh, Parmalik Kumar, Rajneesh Karan, Sandeep K. Singh	1048
177	Opportunistic Routing Protocols based on Fuzzy Logic: Present and Future Directions Salem Abbas, Khaleel Ahmad	1055
178	Brain Tumor Detection Analysis using CNN: A Review Sunil Kumar, Renu Dhir, Nisha Chaurasia	1061
179	A Detailed Review on Challenges and Imperatives of Various CNN Algorithms in Weed Detection Syamasudha Veeragandham, H Santhi	1068
180	Hybrid Classification Algorithms for Predicting Student Performance A. Dinesh Kumar, R. Pandi Selvam, V. Palanisamy	1074
181	Identification of Brain Tumors using Volume rendering Techniques K. Sudha Rani, K. Mani kumari, T. Nireekshna, D. V. Shobana, N. Kavitha, B. Bagya Sri	1080
182	Sparse Code based Indexing for Image Retrieval Saurabh Sharma, Vishal Gupta, Mamta Juneja	1088
183	Intelligent Electricity Information Collection based on 5G Technology Dan Liu, Donghong Fu, Qianru Liu, Chunxue Fan, Anxin Wang	1095
184	Intrusion Detection System using Optimal Support Vector Machine for Wireless Sensor Networks Sibi Amaran, R. Madhan Mohan	1100
185	Securely Distributing Files in Cloud Environment by Dispensing Asymmetric Key Management System Applying Hashing Nusrat Jahan, Md. Ashiq Mahmood	1105
186	Smart Fire Detection System in a Large Building using Lora WAN K. Gokulakrishnan, J. Manoj Kumar, A. Mohammed Ashim	1111
187	A Survey on Third Party Auditor in Cloud Computing K. Aruna Kumari, V. Naga Lakshmi	1116
188	A Novel 3D Object Watermarking Technique using Hash Key Cryptography Vinod Jain, Anuj Mangal	1122
189	Popularizing Antenna Synthesis with Our Solved Problem Sunitt Shantanu Digamber Fulari, Harbinder Singh	1127
190	An Efficient Approach for Multiple user Data Security in Cloud Computing Brozolal Mondol, Md. Ashiq Mahmood	1130
191	A Survey on Network Packet Inspection and ARP Poisoning using Wireshark and Ettercap Majidha Fathima K M, N. Santhiyakumari	1136
192	Implementation of Replay Attack in Controller Area Network Bus using Universal Verification Methodology	1142

193	Thirumavalavasethurayar P, Ravi T	
177	Malicious URL Detection: A Comparative Study	1147
	Shantanu, Janet B, Joshua Arul Kumar R	11.,
194	Mobile Attendance based on Face Detection and Recognition using OpenVINO	1152
	Dane Brown	
105	A Comprehensive Review on Detection of DDoS Attacks using ML in SDN	1150
195	Environment	1158
	Shaveta Gupta, Dinesh Grover	
196	Phishing Website Detection using Novel Machine Learning Fusion Approach	1164
	A. Lakshmanarao, P. Surya Prabhakara Rao, M M Bala Krishna	
105	Review on Application Layer Protocol for IoT enabled Agricultural Intrusion	1150
197	Detection	1170
	Jerrin Simla A, Rekha Chakravarthy	
198	Speech Emotion Recognition using Convolution Neural Networks	1176
	Krishna Chauhan, Kamalesh Kumar Sharma, Tarun Varma	
199	Real-Time Drowsiness Identification based on Eye State Analysis	1182
	Nageshwar Nath Pandey, Naresh Babu Muppalaneni	
• • •	Design of Semi Circular Floral Shape Directive UWB Antenna for Radar based	1100
200	Microwave Imaging	1188
	Asheesh Gupta, M. L. Meena	
201	Intrusion Detection System - Deep Learning Perspective	1193
	Shivani Desai, Bhavyang Dave, Tarjini Vyas, Anuja R. Nair	
202	Detection of Zero-Day Attacks in Network IDS through High Performance Soft	1100
202	Computing	1199
	Srinivas Mishra, Sateesh Kumar Pradhan, Subhendu Kumar Rath	
	Privacy Preserving Data Deduplication in Cloud using Advanced Encryption	
203	Standard D. T	1205
	B. Tirapathi Reddy, Maddireddy Vaishnavi, Makireddy Lalitha, Papineni Poojitha,	
	Vakalapudi Bhavya Sri Kanthi Review of Shortest Path Wireless Sensor Network Performance with Energy-	
	Review of Shortest Path Wireless Sensor Network Performance with Energy-	
204		1211
204	Efficient Approaches	1211
204	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar	1211
	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System	
204	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti,	
	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar	
	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino	1216
205	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman	1216
205	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological	1216
205	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological Environment and Data Mining	1216
205	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological Environment and Data Mining Bo Wang	1216
205 206 207	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological Environment and Data Mining Bo Wang Phenomenon of Machine Mother Tongue Culture Transfer in English under the	1216 1223 1228
205	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological Environment and Data Mining Bo Wang Phenomenon of Machine Mother Tongue Culture Transfer in English under the Internet with Pattern Recognition Models	1216 1223 1228
205 206 207	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological Environment and Data Mining Bo Wang Phenomenon of Machine Mother Tongue Culture Transfer in English under the Internet with Pattern Recognition Models Junhui Shi	1216 1223 1228
205 206 207 208	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological Environment and Data Mining Bo Wang Phenomenon of Machine Mother Tongue Culture Transfer in English under the Internet with Pattern Recognition Models Junhui Shi Multi-node Trust Model Construction based on Blockchain: Modelling and	1216 1223 1228 1232
205 206 207	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological Environment and Data Mining Bo Wang Phenomenon of Machine Mother Tongue Culture Transfer in English under the Internet with Pattern Recognition Models Junhui Shi Multi-node Trust Model Construction based on Blockchain: Modelling and Simulation	1216 1223 1228 1232
205 206 207 208	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological Environment and Data Mining Bo Wang Phenomenon of Machine Mother Tongue Culture Transfer in English under the Internet with Pattern Recognition Models Junhui Shi Multi-node Trust Model Construction based on Blockchain: Modelling and Simulation Hao Luo	1216 1223 1228 1232
205 206 207 208	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological Environment and Data Mining Bo Wang Phenomenon of Machine Mother Tongue Culture Transfer in English under the Internet with Pattern Recognition Models Junhui Shi Multi-node Trust Model Construction based on Blockchain: Modelling and Simulation Hao Luo The Proposed Novel Sphere Decoder for Mimo Detection	1211 1216 1223 1228 1232 1236
205 206 207 208 209	Efficient Approaches Amit Sahu, Nishi Pandey, Abhishek Agwekar Development of Secure Integrated Water ATM as a Smart System Prateek Singh, Mukesh Kumar Lohani, Riya Nagarkoti, Swapnendu Chakrabarti, P B Karandikar Car Parking Allocation System using Arduino P. Dhanabalraj, J. Jashva Sherin, L. Gopinath, K. Kumar, G. M. Gowthaman Foreign Language Online Guiding based on Computer Network Ecological Environment and Data Mining Bo Wang Phenomenon of Machine Mother Tongue Culture Transfer in English under the Internet with Pattern Recognition Models Junhui Shi Multi-node Trust Model Construction based on Blockchain: Modelling and Simulation Hao Luo	1216 1223 1228 1232

M. R. Ebenezar Jebarani, P. Kavipriya, S. Lakshmi, T. Vino A Reliable Significant Message based Ranking Algorithm for Online Social Networks S. R. Mugunthan High Accuracy of Hybrid IDS System using Evidence Theory and SVM ML Technique Sonam Raj, Kedar Nath Singh, Neetesh Kumar Gupta, Rajesh Nigam, Bhupendra Verma, Surabhi Karsoliya Optimized Genetic Algorithm for Efficient Allocation of Virtualized Resource in Cloud (OGA_EAVRC) K Jairam Naik Heart Pulse Monitoring and Notification System using Arduino Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Vijay A. Kanade	1257 1261 1265 1271 1279 1284
213 Networks S. R. Mugunthan High Accuracy of Hybrid IDS System using Evidence Theory and SVM ML Technique Sonam Raj, Kedar Nath Singh, Neetesh Kumar Gupta, Rajesh Nigam, Bhupendra Verma, Surabhi Karsoliya Optimized Genetic Algorithm for Efficient Allocation of Virtualized Resource in Cloud (OGA_EAVRC) K Jairam Naik Heart Pulse Monitoring and Notification System using Arduino 116 Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1261 1265 1271 1279
S. R. Mugunthan High Accuracy of Hybrid IDS System using Evidence Theory and SVM ML Technique Sonam Raj, Kedar Nath Singh, Neetesh Kumar Gupta, Rajesh Nigam, Bhupendra Verma, Surabhi Karsoliya Optimized Genetic Algorithm for Efficient Allocation of Virtualized Resource in Cloud (OGA_EAVRC) K Jairam Naik Heart Pulse Monitoring and Notification System using Arduino Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1261 1265 1271 1279
High Accuracy of Hybrid IDS System using Evidence Theory and SVM ML Technique Sonam Raj, Kedar Nath Singh, Neetesh Kumar Gupta, Rajesh Nigam, Bhupendra Verma, Surabhi Karsoliya Optimized Genetic Algorithm for Efficient Allocation of Virtualized Resource in Cloud (OGA_EAVRC) K Jairam Naik Heart Pulse Monitoring and Notification System using Arduino Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1265 1271 1279
Technique Sonam Raj, Kedar Nath Singh, Neetesh Kumar Gupta, Rajesh Nigam, Bhupendra Verma, Surabhi Karsoliya Optimized Genetic Algorithm for Efficient Allocation of Virtualized Resource in Cloud (OGA_EAVRC) K Jairam Naik Heart Pulse Monitoring and Notification System using Arduino Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Y ogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Vijay A. Kanade	1265 1271 1279
Sonam Raj, Kedar Nath Singh, Neetesh Kumar Gupta, Rajesh Nigam, Bhupendra Verma, Surabhi Karsoliya Optimized Genetic Algorithm for Efficient Allocation of Virtualized Resource in Cloud (OGA_EAVRC) K Jairam Naik Heart Pulse Monitoring and Notification System using Arduino Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFT Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1265 1271 1279
Verma, Surabhi Karsoliya Optimized Genetic Algorithm for Efficient Allocation of Virtualized Resource in Cloud (OGA_EAVRC) K Jairam Naik Heart Pulse Monitoring and Notification System using Arduino Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1271 1279
Optimized Genetic Algorithm for Efficient Allocation of Virtualized Resource in Cloud (OGA_EAVRC) K Jairam Naik Heart Pulse Monitoring and Notification System using Arduino Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1271 1279
Cloud (OGA_EAVRČ) K Jairam Naik Heart Pulse Monitoring and Notification System using Arduino Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1271 1279
K Jairam Naik Heart Pulse Monitoring and Notification System using Arduino Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1271 1279
Heart Pulse Monitoring and Notification System using Arduino Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1279
Hari Kiran Pendurthi, Jaswanth Godavarthi, Hemanth Sai Gokarakonda, Siva Sai Kanneganti, S. Kavitha Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1279
Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1279
Stabilization of Flight Controller for Unmanned Aerial Vehicle Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	
Yogita Dubey, Prathamesh Upadhye, Mrunal Shinde, Himanshu Hulke, Rizwan Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	
Sheikh, Disha Suneja WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	
WIFI Enabled Smart Industrial Security System K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1284
K. Kalai Selvi, Ragul.K, Priyadarshini. M, Lakshmipriya. A, Monika Swetha. G Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1284
Blockchain based Solution to Improve the Supply Chain Management in Indian Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1204
219 Agriculture V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh 222 Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati 223 Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	
V. Sudha, P. Shanmughasundaram, R. Kalaiselvi Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1
Recent Developments and Methods of Cloud Data Security in Post-Quantum Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1289
220 Perspective Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh 222 Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati 223 Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	
Shaik Mohammed Ilias, V. Ceronmani Sharmila A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	
A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1293
A Review of Digital signature and Hash Function based Approach for Secure Routing in VANET Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	
221 Routing in VANET Surender Kumar, Dr. Vikram Singh 222 Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati 223 Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	
Surender Kumar, Dr. Vikram Singh Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1301
Direction based Node Placement in Wireless Sensor Network Kirankumar Y. Bendigeri, Jayashree D. Mallapur, S. B. Kumbalavati Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	
Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1206
Securing Drone-based Ad Hoc Network using Blockchain Vijay A. Kanade	1306
Vijay A. Kanade	1214
	1314
Virtual Machine Security Problems and Countermeasures for Improving Quality of	
224 Service in Cloud Computing	1319
S Mahipal, V. Ceronmani Sharmila	
Blockchain Technology in Agriculture Product Supply Chain	
Shivendra, Kasa Chiranjeevi, Mukesh Kumar Tripathi, Dhananjay D. Maktedar	1325
A Novel Privacy Preserving Biometric Authentication Scheme using Polynomial	
Time Key Algorithm in Cloud Computing	
Praveen Tumuluru, CH. M. H. Saibaba, B. Revathi, Durga BhavaniDasari, Lakshmi	1330
Ramani Burra, B. Venkateswarlu	
Garbage Zero (Garb0): An IoT Framework for Effective Garbage Management in	
227 Smart Cities	
Sagar Chavan, Umesh Patil, Santosh Sam Koshy, S. V. Srikanth	1336
Construction Method of "Multi-Station Integration" Operation System based on	1336
228 Ubiquitous Power Internet of Things	1336
Jin Li, Zhengwen Zhang, Hua Cai, Lingyu Zhang, Xindong Huang, Shujuan Sun	
JIII DI, ZHUNGWUH ZHANG, THA CAI, DINGYU ZHANG, AINGONG THANG, SHUJUAN SUN	1336
Design of the Intelligent Elderly Lighting Emotional Interactive Experience System	

	Jing Wang	
230	A review on the Internet of Things and Big Data Analytics based on Smart Cities John W. Kasubi, Manjaiah D.H, Guesh Dagnew Demewez	1352
231	The Recent Trends in Biometric Traits Authentication based on Internet of Things (IoT) Belal M. Alsellami, Prapti D. Deshmukh	1359
232	Lightweight Security in IoT: A Survey Dileep Kumar M J, Prabha Niranjan	1366
233	An Internet of Things Paradigm: Pandemic Management (incl. COVID-19) Vishnu S, S. R. Jino Ramson	1371
234	Blockchain and Internet of Things: Applications and Practices Premkumar R, Sathya Priya S	1376
235	Security Issues and Architecture of IoT Kushagra Jha, Pronika, Sitara Anumotu, Kritika Soni	1381
236	Smart Fire Detection and Surveillance System using IoT Nikhil Komalapati, Varun Chowdary Yarra, Lakshmi Anantha Vyas Kancharla, T. N. Shankar	1386
237	A Study on Comprehensive Risk Level Analysis of IoT Attacks Raenu Kolandaisamy, Kasthuri Subaramaniam, Abdurrahman Bin Jalil	1391
238	Customized Smart Object Detection: Statistics of Detected Objects using IoT V. Lakshmi Lalitha, S. Hrushikesava Raju, Vijaya Krishna Sonti, V. Murali Mohan	139′
239	IoT based Digital Toll Collection System: A Perspective Md. Nazmul Hossain Mir, N. M. Imrul Kayesh, Tanzila Mahmud Khan, Abdus Sattar	1400
240	Gas Leakage with Auto Ventilation and Smart Management System using IoT Afsana Mim Anika, Jannatul Ferdous Shoma, Nasrin Akter, Md. Niamul Hasan, Abdus Sattar	141
241	Smart Embedded Framework using Arduino and IoT for Real-Time Noise and Air Pollution Monitoring and Alert System Janeera. D. A, Poovizhi.H, Sheik Haseena. S. S, Nivetha. S	1416
242	IoT and AI driven Sustainable Practices in Airlines as Enabler of Passenger Confidence, Satisfaction and Positive WOM Samyadip Chakraborty, Tulika Chakravorty, Vaidik Bhatt	142
243	Augmented Reality with Internet of Things Sureshkumar S, Agash C P, Ramya S, Kaviyaraj R, Elanchezhiyan S	1426
244	Design of IoT based Multifunctional Camouflage Military Robot P. Kavipriya, G. Jegan, Edara Venkat, Deevi Nikhil Ranganadh	1431
245	Fast Restoration of Network with Remote Electric Tilt (RET) using IoT T. Ravi, M. Sugadev, S. Karthikeyan, V. Vijayakumar, Krishna Vibhavasu, Challa Ashok	1436
246	IoT based Prediction of Water Quality Index for Farm Irrigation Rajesh Kumar Yadav, Adarsh Jha, Aditya Choudhary	1443
247	Smart Health Care Monitoring System based on Internet of Things (IoT) V. Baby Shalini	1449
248	Narrowband IoT (NBIoT) Assisted Smart Grids Sudhir K. Routray, Devarajan Gopal, Abhishek Javali, Anindita Sahoo	1454
249	Narrowband IoT based Support Functions in Smart Cities Sudhir K. Routray, Laxmi Sharma, Eisha Akanskha, Aritri D. Ghosh, Sharmila. K. P, Pappa M	1459

250	Implementation of Approximate Computing Circuits for Error Tolerant Image Processing Applications Sakshi Jain, Ritu Singh	1465
251	Efficient Deblocking Filter with SRAM using 22nm FinFET Technology Ritu Singh, Sakshi Jain	1470
252	Performance of Induction Motor with Hybrid Multi Level Inverter for Electric vehicles B. N. Ch. V. Chakravarthi, S. Pragaspathy, P. Naveen, V S N Narasimha Raju	1474
253	VLSI Architecture for High Tap IF Filter with Low Complexity using Multi-rate Approach Simra Haider, Vibha Tiwari	1479
254	Power Quality Improvement for a Hybrid Renewable Farm using UPQC Ch. Phani Kumar, V. Karthikeyan, S. Pragaspathy, K. N. S. Durga Prakash	1483
255	Hotel Review Analysis for the Prediction of Business using Deep Learning Approach Md. Sagar Hossen, Anik Hasan Jony, Tasfia Tabassum, Md. Tanvir Islam, Md Mahfujur Rahman, Tania Khatun	1489
256	Low Cost Multipurpose UV-C Sterilizer box for Protection Against COVID'19 Rahul Santhosh, Sudha Yadav	1495
257	Hybridized Symmetrical Multilevel Inverter Topology with Reduced Number of Switches and DC Sources Lipika Nanda, Srikanta Mohapatra, Arjyadhara Pradhan, Soubhagya Ranjan Prusty	1499
258	Smart Door System with COVID-19 Risk Factor Evaluation, Contactless Data Acquisition and Sanitization Akshay Duth, Abhinav A Nambiar, Chintha Bhanu Teja, Sudha Yadav	1504
259	An Intuitive Alert System for Fault Detection and Fuse Burn out Recognition at the Distribution Transformer A. Jagadeesh, B. Sunil, R. Mahalakshmi	1512
260	Short-Term Load Forecasting using Time Series Algorithm Subhra Debdas, Shivangi Mohanty, Sarbani Mohanty, Biswarup Biswas, Sayantan Kundu, Anik Pal	1518
261	A Comprehensive Survey on Communication Technologies for a Grid Connected Microgrid System Suman Ghosh, Chandan Kr. Chanda, J. K. Das	1525
262	Hybrid Topology of Graph Convolution and Autoencoder Deep Network For Multiple Sclerosis Lesion Segmentation Abhilasha Joshi, K.K. Sharma	1529
263	Content based Image Retrieval using Frequency Domain Features: Zigzag Scanning of DCT Coefficients Netalkar Rohan Kishor, Hillol Barman, U. S. N.Raju, Suresh Kumar Kanaparthi, Harika Ala	1535
264	Implementation of CMOS-based Photo Diode for High-Efficiency end-to-end Communication and Enhanced Bit Error Rate Praful Nandankar, A. Geetha Devi, A. Jaya Lakshmi, V. V. Hari Babu	1541
265	Next-Day Electricity Demand Forecasting using Regression Mert Çetinkaya, Tankut Acarman	1549
266	Automatic Solar Panel Cleaning System based on Arduino for Dust Removal Md. Rawshan Habib, Md Shahnewaz Tanvir, Ahmed Yousuf Suhan, Abhishek Vadher, Sanim Alam, Tahsina Tashrif Shawmee, Koushik Ahmed, Abdelrhman Alrashed	1555

267	Comparative Study of THD in Multilevel Converter using Model Predictive Controller	1559
	S. Rajasekaran, CH. Mahendar	
	Mathematical Modelling of DVR with Two Stage Feedback Controller	
268	Janagama Vinay Kumar, P. Chaitanya Theja, P. S. V. N. Sudhakar, V S Aditya, P	1564
	Rama Krishna, Rushi Santhosh Singh Thakur	
	Design and Implementation of Efficient Torque Control of Induction Motor for	
269	Electric Vehicles	1571
	T. Rampradesh, S. Harini, C. Christober Asir Rajan	
270	Towards Effective Time Series Classification of Multi-Class Imbalanced Learning	1576
270	Priyadarsini .K, S. Karthik, O. Hemakesavulu, Santoshachandra Rao Karanam	1576
	Performance Analysis of Mantissa Multiplier and Dadda Tree Multiplier and	
271	Implementing With DSP Architecture	1583
	G. Ramachandran, K. Kishore, Chandra Kumar Dixit, A. Arunraja	
	An Investigation on Power Factor Enchancement using Bi-Directional Power	
272	Converter	1588
212	R. Sanjai Rohan Singh, J. Ramesh Kumar, T. Ram Mohan, M. Vel Manikandan,	1388
	M. Gengaraj, L. Kalaivani	
272	Total Variation Denoising Techniques for Artifact Removal from EEG Signals	1504
273	Ahsan Ali, Subha D. P	1594
274	COVID19 Prediction using Time Series Analysis	1599
2/ 4	Aayush Jain, Himanshu Gadia, Tanay Sukhdeve, Satya Prakash Sahu, Satya Verma	1399
	FFT and PMU based Fault Analysis in Double Circuit Transmission Line	
275	Suman Ghosh, Barnali Kundu, Avinash Shaw, Chandan Kr. Chanda, Aveek	1607
	Chattopadhyaya, J. K. Das	
	Comparative Analysis of Two- Level & Three-Level SVPWM based DTC IM	
276	Drives	1612
	Ashish Srivastava, Anurag Chauhan, Anurag Tripathi	
277	Electronic Solution to Address Traffic Issues Near Bus Stops	1619
211	Utkarsh Mishra, Rain Ritika, Rajeshwar, Ashish Kumar Mishra, P B Karandikar	1017
	Comparative Analysis of Modified INC and FLC for Solar Charger for Electric Two	
278	Wheeler	1625
	Pooja Unnikrishnan, Visal Raveendran, Manjula G Nair	
279	A Brain-Switch based on Change in SSVEP Magnitude	1632
217	Kamal Sharma, Vaidik Gupta	1032
	Review on Powering an Automated Teller Machine using Vertical Axis Wind	
280	Turbine and Solar Energy	1637
	S. Karthikeyan, P. Krishna Prakash, K. Logesh Krishna, V. Poovarasan	
281	Analysis of High Speed Hybrid Full Adder	1641
201	V. Vijayakumar, K. T. Ilayarajaa, T. Ravi, M. Sugadev	10.1
282	Booth Multiplier Design using Modified Square Root Carry-Select-Adder	1647
202	P. Kavipriya, S. Lakshmi, T. Vino, M. R. Ebenezar Jebarani, G. Jegan	10+7
283	Intelligent Vehicle Tracking System for Motorcycle Racing Competition	1654
203	Chetan S.Gode, Vikas R.Gupta	1001
284	Design of all-optical D flipflop using SOA-MZI Architecture	1657
207	Sukhender, Nivedita Nair, Sanmukh Kaur, Purshottam Mittal	1051
	Efficient Solar PV Array System using Modified Algorithm for Water Pumping	
285	System	1663
203	Rameshwari Medhane, Sharad Dhamal, Mohan Thakre	1003

286	Estimation of Health and Initial SOC based on Voltage Variation for LiPo Battery M. Nirmala, Durga Shree S	1670
	Smart Energy Meter for Electric Vehicle	
287	M. Padmapriya, T. A. Raghavendiran, S. Gomathi	1677
	Real-time Emergency Reporting and Handling System	
288	Thosani Yash Bhavesh, Panchal Rutvik Rajendra, Nagda Preet Kirti, Nilakshi Jain	1683
289	Evolutionary Computing based Analysis of Diversity in Grammatical Evolution Ayman Youssef, Krishn Kumar Gupt, Muhammad Adil Raja, Aidan Murphy, Conor	1688
	Ryan	
	Image Processing based Smart Weed Removal and Organic Fertilizer Sprinkling Bot	
290	– A Systematic Review	1694
	Rajyalakshmi Uppada, Vanaja Kandubothula, Uppalapati Padma	
201	Role of Wearables in Sports based on Activity Recognition and Biometric	4=00
291	Parameters: A Survey	1700
	N. Nithya, G. Nallavan	
292	Arduino based Smart System for Control and Effective Billing	1706
	P. Swamy Vivek, P. Venkata Sai Rahul, Dyuthy E. S, Sudha Yadav	
202	An Introduction to Universal Verification Methodology for the Digital Design of	1510
293	Integrated circuits (IC's): A Review	1710
	N B Harshitha, Praveen Kumar Y G, M Z Kurian	
294	Machine Learning based Click Bait Detection System	1714
	Ritu Agarwal, Dhruv Jain, Janardan Tiwari, Gagan Sharma	
•••	Machine Learning based Collaborative Intelligent Closing Gap between Graduates	
295	and Labour Market Framework	1721
	Wael M.S. Yafooz, Essa Abdullah Hezzam, Abdel-Hamid Mohamed Emara	
296	Blockchain driven IoT based Delish2Go Decentralized Food Delivery Application	1727
	K. Sasikala Rani, S. Vishali	
• • •	Natural Language Processing based Identification of Related Short Forum Posts	4-00
297	through Knowledge based Conceptualization	1733
	J. C. Miraclin Joyce Pamila, Ajithkumar. A. K, R. Senthamil Selvi	
298	Global Positioning System based Waypoint Capture for Dual-Layered Security	1741
	Sushitha S, Raghavendra Naik L	
200	Predictive Models for River Water Quality using Machine Learning and Big Data	4-1-
299	Techniques - A Survey	1747
	Jitha P Nair, Vijaya M S	
	Security Analysis on an Efficient and Provably Secure Authenticated Key	
300	Agreement Protocol for Fog-Based Vehicular Ad-Hoc Networks	1754
	Salman Shamshad, Mohammad S. Obaidat, Minahil, Muhammad Asad Saleem,	
	Usman Shamshad, Khalid Mahmood	
	On the Security of Authenticated Key Agreement Scheme for Fog-driven IoT	
301	Healthcare System	1760
	Salman Shamshad, Mohammad S. Obaidat, Minahil, Usman Shamshad, Sahar Noor,	
	Khalid Mahmood	
	On the Security of a Lightweight Privacy-Preserving Authentication Protocol for	
302	VANETS Salman Shamahad Muhammad Agad Salagm Mahammad S. Ohaidat Haman	1766
	Salman Shamshad, Muhammad Asad Saleem, Mohammad S. Obaidat, Usman	
	Shamshad, Khalid Mahmood	
303	A Review on Various Techniques for Spam Detection	1771
	Nitesh J. Kawale, Saad Yunus Sait	